

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/564,311
Source: IFUOP
Date Processed by STIC: 1-23-06

ENTERED



IFWP

RAW SEQUENCE LISTING

DATE: 01/23/2006

PATENT APPLICATION: US/10/564,311

TIME: 09:21:08

Input Set : A:\BY0027P-Sequence Listing.txt

Output Set: N:\CRF4\01232006\J564311.raw

3 <110> APPLICANT: BANYU PHARMACEUTICALS CO.,LTD
 5 <120> TITLE OF INVENTION: Method of Evaluating Compound Efficacious In Treating
 Obesity
 7 <130> FILE REFERENCE: 04-0196
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/564,311
 C--> 9 <141> CURRENT FILING DATE: 2006-01-11
 9 <150> PRIOR APPLICATION NUMBER: JP 2003-196154
 10 <151> PRIOR FILING DATE: 2003-07-11
 12 <160> NUMBER OF SEQ ID NOS: 110
 14 <170> SOFTWARE: PatentIn version 3.1
 16 <210> SEQ ID NO: 1
 17 <211> LENGTH: 3045
 18 <212> TYPE: DNA
 19 <213> ORGANISM: Homo sapiens
 21 <400> SEQUENCE: 1
 22 actaagaccg caaggcattc atttcctcct acggtggatg cggacgccgg gaggaggaga 60
 24 gccccagaga gaggagctgg gagcggaggc gcaggcaatg ctcagccctg gatgtagctg 120
 26 agaggctggg agaagagacg accgctggag accgagcggc gtggggaaga cctagggggg 180
 28 tgggtggggg aagcagacag gagaacactc gaaatcaagc gctttacaga ttattttatt 240
 30 ttgtatagag aacacgtagc gactccgaag atcagcccca atgaacatgt cagtgttgac 300
 32 tttaacaaga tatgaattcg aaaagcagtt caacgagaat gaagccatcc aatggatgca 360
 34 ggaaaactgg aagaaatctt tctgttttc tgctctgtat gctgccttta tattcgggtg 420
 36 tcggcaccta atgaataaac gagcaaagtt tgaactgagg aagccattag tgctctggtc 480
 38 tctgaccctt gcagctctca gtatatcgg tgctcttcca actgggtgctt atatggtgta 540
 40 cattttgatg accaaaggcc tgaagcagtc agtttgtgac cagggttttt acaatggacc 600
 42 tgtcagcaaa ttctgggctt atgcatttgt gctaagcaaa gcaccggaac taggagatac 660
 44 aatattcatt attctgagga agcagaagct gatcttcctg cactgggtatc accacatcac 720
 46 tgtgctcctg tactcttggg actcctacaa agacatgggt gccgggggag gttggttcat 780
 48 gactatgaac tatggcgtgc acgccgtgat gtactcttac tatgccttgc gggcggcagg 840
 50 tttccgagtc tcccgaagt ttgccatgtt catcaccttg tcccagatca ctcagatgct 900
 52 gatgggctgt gtgggttaact acctgggtct ctgctggatg cagcatgacc agtgtcactc 960
 54 tcactttcag aacatcttct ggtcctcact catgtacctc agctaccttg tgctcttctg 1020
 56 ccatttcttc tttgaggcct acatcggcaa aatgaggaaa acaacgaaag ctgaatagt 1080
 58 ttggaactga ggaggaagcc atagctcagg gtcacataga aaaataatag acaaaagaaa 1140
 60 atggcacaag gaatcacacg tgggtgcagct aaaacaaaaa aaaacatgag caaacacaaa 1200
 62 acccaaggca gcttagggat aattaggttg atttaacca gtaagtttat gatcctttta 1260
 64 gggtaggac tactgagtg cacctccatc tccaagcact gctgctggaa gaccccatc 1320
 66 cctctttatc tatcaactct aggacaaggg agaacaaaag caagccagaa gcagaggaga 1380
 68 ctaatcaaag gcaaacaaag gctattaaca cataggaaaa tatgtattta ctaagtgtca 1440
 70 catttctcta agatgaaaga tttttactct agaaactgtg cgagcacaac acacacaatc 1500
 72 ctttctaact ttatggacac taaactggag ccaatagaaa agacaaaaat gaaagagaca 1560
 74 cagggtgtat atctagaacg ataatgcttt tgcagaaact aaagcctttt taagaaatgc 1620
 76 cagctgctgt agaccccatg agaaaagatg tcttaatcat ccttatgaaa acagatgtaa 1680
 78 acaactatat ttcaactaac ttcattctca ctgcatagcc tcaggctagt gagtttgcca 1740

RAW SEQUENCE LISTING

DATE: 01/23/2006

PATENT APPLICATION: US/10/564,311

TIME: 09:21:08

Input Set : A:\BY0027P-Sequence Listing.txt

Output Set: N:\CRF4\01232006\J564311.raw

```

80 aaaccaaagg ggggtgaatac ttccccaaga ttcttctctg gaggatggaa acagtgcagc 1800
82 ccaggtecca tgggggcagc tccatcccag agcatttctg atagttgaac tgtaatttct 1860
84 actcttaagt gagatatgaa gtattatcct ttgttctagt tgccccgggc ttttgaacag 1920
86 aagagtaaat acagaattga aaaagataaa cactcaacca aacaatgtga aaacgggttc 1980
88 tgtagtattt gtaaaaaggc ccggcccagg accactgtga gctggaaaag ggagaaaggc 2040
90 agtgggaaaa gaggtgagcc gaagatcaat tcgacagaca gacggtgtgt atgcccctcc 2100
92 ctgtttgact tcacacacac tcataacttt ccaaagaaa cccacagta tagcgcatat 2160
94 ttctgatatt ttgtggaatt ccaaaggaa atcacagggc tgttcgaaat attgggggaa 2220
96 cactgtgttt ctgcatcatc tgcatttgct cccaagcaa thtagagggtg tttaaagggc 2280
98 cctctgctgg ctgagtggca atactacaac aaacttcaag gcaagtttg ctgaaaacag 2340
100 ttgacaacaa agggcccccac tacacttatc cctcaaattt taagtgatat gaaatacttg 2400
102 tcatgtcttt ggccaaatca gaagatattc atcctgtctc aagtcagctt cagaaatgtt 2460
104 ttaaaaggga ctttagctct ggaactcaaa atcaatttat taagagccat attcttttaa 2520
106 aaaaaaagct ggataatatt atctgtaata ttctagtcct ttacaagcca aatacatgtg 2580
108 tcaatgtttc tagtatttca aagaagcaat tatgtaaagt tgttcaatgt gacataatag 2640
110 tattataatt gggttaagtag cttaatgatt aggcataacta gatgaaaaga ttaggggctt 2700
112 ccacactgca tagatcacac gcacatagcc acgcatacac acacagacac acagatgtgg 2760
114 ggtacactga atttcaaagc ccaaagaaat agaaacacat tttctggcta gcagaaaaaa 2820
116 acaaaacaaa actgtttgtt ctctttcttg ctttgagagt gtacagtaaa agggattttt 2880
118 tcgaattatt tttatattat ttttagcttta attgtgctgt cgttcatgaa acagagctgc 2940
120 tctgcttttc tgtcagagat ggcaagggtt ttttcagcat ctggtttatg tgtggaattt 3000
122 aaaaagaata aagttttatt ccattctgaa aaaaaaaaaa aaaaa 3045
125 <210> SEQ ID NO: 2
126 <211> LENGTH: 5893
127 <212> TYPE: DNA
128 <213> ORGANISM: Homo sapiens
130 <400> SEQUENCE: 2
131 tggatgcgga cgctgggagg agagcccctg agctaggagc tgggagcaga ggcgcagaga 60
133 acacgtagcg actccgaaga tcagcccacaa tgaacatgtc agtgttgact ttacaagaat 120
135 atgaattcga aaagcagttc aacgagaacg aagccatcca atggatgcag gaaaactgga 180
137 agaagtcctt cctgttttct gcgctgtacg ctgccccttat ctttgggtgg cggcacttga 240
139 tgaacaagcg agccaagttt gaacttcgga agccgctcgt gctctggtcg ctgactcttg 300
141 ccgtcttcag tatattcggt gctcttcgaa ctgggtgctta catgctgtac attctgatga 360
143 ccaaaggcct gaagcagtca gtttgtgacc agagttttta caatggacct gtcagcaaat 420
145 tctgggctta tgcatttggt ctacgcaaaag caccggaact aggtgacacg atattcatca 480
147 ttctgaggaa acagaaactg atcttctctg actggtacca ccacatcact gtgctcctgt 540
149 actcctggta ctctacaaa gacatggctg ctgggggtgg ttggttcatg actatgaact 600
151 atggcgtgca tgccgtcatg tactcttact acgccttgcg ggctgcgggt ttccgagttc 660
153 cccggaagtt tgccatgttc atcaccttgt ccagatcac tcagatgctg atgggctgtg 720
155 tcattaacta cctggtcttc aactggatgc agcatgacaa cgaccagtgc tactcccact 780
157 ttcagaacat cttctggtcc tcgctcatgt acctagcta ccttgtgctc ttctgccatt 840
159 tcttctttga ggccatcatc ggcaaagtga agaaagccac gaaggctgag tagtgtcagg 900
161 gctgaggagg aagtcatagc tcagggtcat caccgaaaaa aatcgacaaa agaaaaatgg 960
163 cacaaggaat cccatattgt gcagctaaaa caaaacaaaa catccgtatg agcaggcacg 1020
165 aggcccaagg cagcttggga ctgaagatta ggttgaagt ttatgatcct ttctgggtga 1080
167 ggactcgtcg agtgcaactc ttatctcaa gcacggctgc tgaggggacc ccttccctct 1140
169 ggctgtcaa ctctagaaca cactagatgc aaaggcagcc acgggcaaag agattgggca 1200
171 gagattagtg gacggccagc aaaacactgc aggaagcagg tggggggagg aatctactca 1260
173 gcctttttgt ttgtttttgt ttgtttttgt ttgttttttc tctaaggata aaggagtttc 1320

```

RAW SEQUENCE LISTING

DATE: 01/23/2006

PATENT APPLICATION: US/10/564,311

TIME: 09:21:08

Input Set : A:\BY0027P-Sequence Listing.txt

Output Set: N:\CRF4\01232006\J564311.raw

175	cccttttcaa	acgatgtgag	cacacacaca	cacacacaca	cacacacaca	cacacacaca	1380
177	cacacgcaat	cttttcaaca	cgaaaccaga	gctaaaagaa	aagataaaca	tgggagagac	1440
179	agggtttcta	tctgggacag	caatgctttt	gcaaaaggct	aggcctttta	aagaaagggtg	1500
181	agcttgtaac	tccttgataa	aagatgtctt	aattattttt	actgcaactg	aaagtaaaga	1560
183	ggtagagcct	ttcccccttct	gcacagcctc	agggcttgta	tgttcgctac	aaccaaacac	1620
185	aggacagtac	ttcccccatg	atactttatt	actgggagaa	agaaaccctt	gtagttgaaa	1680
187	caccacactg	acaactgtta	tttctgctct	cgcacgagaa	ttcaagcatc	cgttgttcag	1740
189	ttgccccaaa	cttttagtgac	ggaggagtaa	atgcagaact	gaaaggggaag	aagctcagct	1800
191	ggctggcctt	aaaatggagt	cttgtagcat	gtgtaacaaa	tgccagccca	tcgtccctgg	1860
193	agctgaacag	ggaggaagg	ctatgggcag	agactagagc	cggattcatc	caatgtgcag	1920
195	acagcgtgtt	cgccctccctc	cctgttcgac	ctcacacata	atcctggctt	tctaaatgag	1980
197	gccctgtgac	acactctgtg	ctttctatat	ttttgtgact	ttcaaacaca	gatctgcagg	2040
199	gctctgcttg	atttggggta	aacactgtgt	ttctgcagcc	tctgcatttg	ctcccttcag	2100
201	cagtgcagag	gcttgagaag	tgccctctgc	tggcttagtg	agaagcttca	acaaacactt	2160
203	cacgtagtgt	ttgaaataac	tgaccactaa	gggcctgcgg	agattaaacc	ctaagttcta	2220
205	agtgtgttca	aacacctgac	atatatttga	ccaaatcaga	aatttttttag	gtgactttca	2280
208	cttgagaact	cagaaagtca	atgtattaag	agccatattc	tgaagaaag	aaagagaaag	2340
210	agagaaagaa	agaaagaaag	aaagaaagaa	agaaagaaag	aaagaaagaa	agaagaaaga	2400
212	aagaaagaaa	gaaagcaagc	tagacaatgt	taactgtaat	atttcagtcc	tctacaagcc	2460
214	aaataaatgt	gtcgatgttc	ctaataattc	aaagacgcaa	ttacataaag	ttgttcaatg	2520
216	tgatataata	gtatttctaat	tggttaaagta	gtttaatgat	taggcaaact	agcagaaaca	2580
218	attagaggct	gctacaccac	gtagattata	cacacatagc	cacgtacgtg	aggtagacgg	2640
220	agctataaag	ctcaaataca	tagtaacacg	atttttggct	agcagaaact	atcacctatc	2700
222	ttcctttact	tgagagtgtg	cagtaaaagg	gatttttttc	aaattatttt	tatattattt	2760
224	tagctttaat	tgtgtgtgtca	ttcatggaac	agctgctcag	cagccttcct	gtgagagatg	2820
226	acaggggtgt	tttcgtgtgg	cttggtttacg	tgtggaattg	gaaaagaata	aaatctgatt	2880
228	cccttctgtg	ggaatgggat	caagggtaga	caaaggaccc	atgtagatca	agtcataact	2940
230	gaacgaccag	ggaaggagc	caggcggggg	cgggagtcag	ctgtggcttt	catgttacca	3000
232	ttgtgtggtg	gctgatggac	gggacgtggt	tggagggatg	ttttcttact	tggggtagaa	3060
234	gctaaccgga	gatgaaagtc	tagaagccac	tctgtccagt	ggaatcttag	ggtgtacttg	3120
236	ttccttttag	ctttgtaaat	gcacaatagt	gtacaataat	aagcctttcc	cttgcccttat	3180
238	ggaagaaagt	gagcaagata	atgaaaacca	agaagccacc	tatcagttga	attgagtcta	3240
240	atcaaaaaggc	cagcctgagg	ctcctctggg	cggttcagtt	taatttagat	atttaccata	3300
242	gaatacaggt	acaatatgga	aatctcataa	gcataaactt	taaaacgact	aagctatgct	3360
244	tccaaagcac	tttagttctca	gtgtttcttcg	cttcatgctc	tctccacttg	taaaataact	3420
246	tagacttttc	attcgcagga	tgagtatata	ataattaagt	ttccaaacca	gctaaactgt	3480
248	agctacaggc	aattccagtg	ttcaccatgg	gaagaaaaag	ccacatgttt	ttttaaaaac	3540
250	acagaattct	gatataggct	cagcacacag	tttttaacat	atcagcttag	ctgctctaata	3600
252	tgtatcaaga	tacgaggctg	gaccactggc	ctatgacaca	tctaaaacct	gccagaattg	3660
254	actgccacgt	agataatact	gctgtcagtg	aacattccgg	gcaagcaagt	ttttgtagct	3720
256	gccccactat	gctgcaatag	attatctttc	tattgaagat	ttctcgctgc	attccaatcc	3780
258	cagtgtggtg	aaaacttaata	tcctggattg	aatgaacaca	aatccgaggt	ttcatataaa	3840
260	cgcagtgcgg	tcactagggtc	tgagcatcaa	ctcaaagtgt	ttgagtttgc	aatgaaattc	3900
262	tagtgagaat	cactccattc	acacagtagg	agatttttat	ctggaccttc	tagtgtcaac	3960
264	tgtgaggaga	aacaactatc	attattattt	atttattgta	tttatatcca	atgccaggcc	4020
266	aaagtattga	tttagatcaa	gcagtgcctt	ttccccccct	cccaaccccc	catctttcta	4080
268	atccttctgc	actatagaaa	gtcaagactg	gaggggaaat	ccatattcat	tgctgcaggg	4140
270	gaaagcaggt	ttattaatcc	tcccgtgtgc	tttatgagac	cgattgacca	atgtagctca	4200
272	ggcagaagtt	tcatgtgggt	gggatattcta	caggagccta	ggaaaacact	tccagagaag	4260

RAW SEQUENCE LISTING

DATE: 01/23/2006

PATENT APPLICATION: US/10/564,311

TIME: 09:21:08

Input Set : A:\BY0027P-Sequence Listing.txt

Output Set: N:\CRF4\01232006\J564311.raw

```

274 ataaccacag actggttgttt ttgttcattt gttttatatac ttcattggttaa gataagcctg 4320
276 tcacggagtt acaaggcacc atgacactaa ggtagaatgt tccagaagtc tggctacctt 4380
278 cccaggctgc tcagttacct gggagtgtct agttactatc ttgttctgac gagaggagct 4440
280 tttgctcaag aactgccaga tacagacacc aagtcagccc tggcacactc tacaacctcc 4500
282 gggcataggt aatgggtctt tgactattgg attgcctcag tgtcaagtga gttcctagaa 4560
284 gaagagaccg agtaggctct acccccaga ctccaccaca ctctgagttg cattgacagg 4620
286 atcgggtgtc agacacagtt ctttgtgaag tgtcaatgct agagacagtt gtgaggagat 4680
288 catgatgaca gcccagaact ttctagcttt caaatgcac cttttccagt ctttgttttg 4740
290 ataacagcta ttttgctatc agtttgggac aacagtagag tctgtggcca tgtgatctac 4800
292 agcttatgat cacacagctc ccatttcctg gtgcctgaga tcccagccat cagaaaagtg 4860
294 tttgggtgag aattcacaac atatatgtca cctctgcata ttgaagtga atctaataaa 4920
296 acaaggacgt cctattttgt ctgaacccgc tgaatgaagc tctgttatcc tagttagtca 4980
298 ttgggccgcc atcctctgta cccgatagt acacaaaaca gatgtcgggt cctgtacaag 5040
300 aattctcagt gctgtttgtg acagactgtg cttagaagaa acattcgtga gccataaagc 5100
302 aggaaccaca gatgaaaggg ccagttaaaa gtccacctgc tccaagtatc atagaaaacc 5160
304 caaagcctg ttgtataatc tggattgtc cccatcccca gatgctttga aaactaggat 5220
306 tctcagagca tggataccca cgcttccatc ttcccacaaa catttcctag agttgtactg 5280
308 gtgggtgcag ccctagggtg ttggttgggg gaagtcttgg aagctgtact ttgattgcag 5340
310 gtcaagcaaa gccaaatcca gatatttctg tgtcactcac cagttgtcca tgtccaccca 5400
312 caaaacaatt gtattatagt caagttgtcc tagctgattg gtcctcaa ataggatgcaa 5460
314 ctatgtttgc aaccagtta ggacacattt gaaagaacct gactcactag catctaaaca 5520
316 atatcatttc cccaatgctt ggtggcactt cagacttttg ttctcctggg tgatcaagggt 5580
318 gttgcctggg ggtgccgcct cctagtgtga atatttcagt taagtgtggg tctgagcatg 5640
320 accgggctgg gcttagctca ctgctacttg gaaaatgact ggcattctgc ttccataggcc 5700
322 ctaaaccatc attcagaggg aaaattcact atcaagcctc acagcgaaat cacagcagtg 5760
324 ttggaattct tattttcaag tgcttatctc acaacattga aaaatatttt tgggtgtatta 5820
326 agatttaaaa taaagtcac ataaactttt gaatttaaaa aaaaaaaaaa aaaaaaaaaa 5880
328 aaaaaaaaaa aaa 5893
331 <210> SEQ ID NO: 3
332 <211> LENGTH: 34
333 <212> TYPE: DNA
334 <213> ORGANISM: Artificial
336 <220> FEATURE:
337 <223> OTHER INFORMATION: PCR primer
339 <400> SEQUENCE: 3
340 gccaccatgg gcaacatgtc agtgttgact ttac 34
343 <210> SEQ ID NO: 4
344 <211> LENGTH: 24
345 <212> TYPE: DNA
346 <213> ORGANISM: Artificial
348 <220> FEATURE:
349 <223> OTHER INFORMATION: PCR primer
351 <400> SEQUENCE: 4
352 ctactcagcc ttcgtggctt tctt 24
355 <210> SEQ ID NO: 5
356 <211> LENGTH: 27
357 <212> TYPE: DNA
358 <213> ORGANISM: Artificial
360 <220> FEATURE:

```

RAW SEQUENCE LISTING

DATE: 01/23/2006

PATENT APPLICATION: US/10/564,311

TIME: 09:21:08

Input Set : A:\BY0027P-Sequence Listing.txt

Output Set: N:\CRF4\01232006\J564311.raw

```

361 <223> OTHER INFORMATION: probe
363 <400> SEQUENCE: 5
364 ctttctgtt ttctgcgtg tacgtg 27
367 <210> SEQ ID NO: 6
368 <211> LENGTH: 22
369 <212> TYPE: DNA
370 <213> ORGANISM: Artificial
372 <220> FEATURE:
373 <223> OTHER INFORMATION: PCR primer
375 <400> SEQUENCE: 6
376 ggatgcagga aaactggaag aa 22
379 <210> SEQ ID NO: 7
380 <211> LENGTH: 21
381 <212> TYPE: DNA
382 <213> ORGANISM: Artificial
384 <220> FEATURE:
385 <223> OTHER INFORMATION: PCR primer
387 <400> SEQUENCE: 7
388 tgccgaccac caaagataaa g 21
391 <210> SEQ ID NO: 8
392 <211> LENGTH: 19
393 <212> TYPE: DNA
394 <213> ORGANISM: Artificial
396 <220> FEATURE:
397 <223> OTHER INFORMATION: probe
399 <400> SEQUENCE: 8
400 atcactgtgc tctgtact 19
403 <210> SEQ ID NO: 9
404 <211> LENGTH: 23
405 <212> TYPE: DNA
406 <213> ORGANISM: Artificial
408 <220> FEATURE:
409 <223> OTHER INFORMATION: PCR primer
411 <400> SEQUENCE: 9
412 agctgatctt cctgcactgg tat 23
415 <210> SEQ ID NO: 10
416 <211> LENGTH: 24
417 <212> TYPE: DNA
418 <213> ORGANISM: Artificial
420 <220> FEATURE:
421 <223> OTHER INFORMATION: PCR primer
423 <400> SEQUENCE: 10
424 ggcaaccatg tctttgtagg agta 24
427 <210> SEQ ID NO: 11
428 <211> LENGTH: 34
429 <212> TYPE: DNA
430 <213> ORGANISM: Artificial
432 <220> FEATURE:
433 <223> OTHER INFORMATION: PCR primer

```

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 01/23/2006
PATENT APPLICATION: US/10/564,311 TIME: 09:21:09

Input Set : A:\BY0027P-Sequence Listing.txt
Output Set: N:\CRF4\01232006\J564311.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29
Seq#:30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53
Seq#:54,55,56,57,58,59,60,61,62,63,64,65,66,67,68,69,70,71,72,73,74,75,76,77
Seq#:78,79,80,81,82,83,84,85,86,87,88,89,90,91,92,93,94,95,96,97,98,99,100,101
Seq#:102,103,105,106,107,108,109,110

VERIFICATION SUMMARY

DATE: 01/23/2006

PATENT APPLICATION: US/10/564,311

TIME: 09:21:09

Input Set : A:\BY0027P-Sequence Listing.txt

Output Set: N:\CRF4\01232006\J564311.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No

L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date